New Proposed amended claims

1. Device converting thermal energy into kinetic energy, related to the group of thermodynamic machines using adiabatic compressors, adiabatic expanders and heat exchangers that convert thermal energy into kinetic one by means of an available outside heat source, said device being more specifically related to devices using rarefied gas in a three-phase cycle in which the first phase is an adiabatic expansion accomplished by an expander, the second phase is an isobaric expansion accomplished by a heat exchanger, both said expander and heat exchanger being located correspondingly in two adjacent rooms of a vessel and having between them a membrane with numerous pores, accomplishing the third phase, which is a spontaneous isothermal gas aggregation equivalent to ideal isothermal compression,

characterized by

the fact that in place of the membrane stands a region (No 4, Fig. 5), located (according to the gas flow direction) between the above mentioned heat exchanger (No 6, Fig. 5) and expander (No 5, Fig. 5), all put in a vacuum glass vessel (Fig. 5), said region (No 4, Fig. 5) containing numerous slots (No 26, Fig. 2), which have

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- (a) Diverging active inner surfaces (Fig. 9(b)), perfectly polished (p. 2, line 30), with the angle (Fig. 2(ω)) between them optimized for maximum output power.
 - (b) Microscopic cross section comparable to the mean free path of the molecules,
- and (c) A macroscopic length of 20mm (No 30, Fig. 2),
- said slots being grouped together as spacings (s, Fig. 9) between adjacent parallel triangular rods (No 19, Fig. 9) and arranged first (with a number of them) in series to form small modules (Fig. 6), in order to achieve increased pressure difference between input and output of each module, said modules being then grouped together in a parallel layout (Fig.7) in respect to the gas flow, as shown by the arrows (No 31, Fig.7).